Amendments to Claims

1-24. (cancelled)

25. (new) An isolated polynucleotide comprising:

(a) a nucleotide sequence encoding a polypeptide having auxin transport activity, wherein the polypeptide has an amino acid sequence of at least 80% sequence identity, based on the Clustal method of alignment with pairwise alignment default parameters of KTUPLE=1, GAP PENALTY=3, WINDOW=5 and DIAGONALS SAVED=5, when compared to SEQ ID NO:14, or

(b) the full-length complement of the nucleotide sequence of (a).

26. (new) The polynucleotide of Claim 25, wherein the amino acid sequence of the polypeptide has at least 85% sequence identity, based on the Clustal method of alignment with said pairwise alignment default parameters, when compared to SEQ ID NO:14.

27. (new) The polynucleotide of Claim 25, wherein the amino acid sequence of the polypeptide has at least 90% sequence identity, based on the Clustal method of alignment with said pairwise alignment default parameters, when compared to SEQ ID NO:14.

28. (new) The polynucleotide of Claim 25, wherein the amino acid sequence of the polypeptide has at least 95% sequence identity, based on the Clustal method of alignment with said pairwise alignment default parameters, when compared to SEQ ID NO:14.

29. (new) The polynucleotide of Claim 25, wherein the amino acid sequence of the polypeptide comprises SEQ ID NO:14.

30. (new) The polynucleotide of Claim 25 wherein the nucleotide sequence comprises SEQ ID NO:13.

31. (new) A vector comprising the polynucleotide of Claim 25.

32. (new) A recombinant DNA construct comprising the polynucleotide of Claim 25 operably linked to at least one regulatory sequence.

33. (new) A method for transforming a cell, comprising transforming a cell with the polynucleotide of Claim 25.

34. (new) A cell comprising the recombinant DNA construct of Claim 32.

35. (new) A plant comprising the recombinant DNA construct of Claim 32.

36. (new) A seed comprising the recombinant DNA construct of Claim 32.

37. (new) A method of selecting an isolated polynucleotide that affects the level of expression of a polypeptide in a plant cell, the method comprising the steps of:

(a) constructing the isolated polynucleotide of Claim 25;

(b) introducing the isolated polynucleotide into the plant cell;

(c) measuring the level of the polypeptide of claim 25 in the plant cell containing the polynucleotide; and

(d) comparing the level of the polypeptide in the plant cell containing the isolated polynucleotide with the level of the polypeptide in a plant cell that does not contain the polynucleotide.

38. (new) A method for positive selection of a transformed plant cell comprising:

(a) transforming a plant cell with the recombinant DNA construct of Claim 32; and

(b) growing the transformed plant cell under conditions which allow expression of a polynucleotide in an amount sufficient to complement a null mutant to provide a positive selection means.

39. (new) The method of Claim 38 wherein the plant cell is a monocot.

40. (new) The method of Claim 38 wherein the plant cell is a dicot.